



Thermal Performance Improvement of Solar Air Heater

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Message from the Guest Editors

Dear Colleagues,

Renewable energy plays an important role in the current continuous increasing energy demand and in attempts to mitigate issues around the many emissions and greenhouse problems. Solar energy utilization is a basic weapon for facing energy problems, giving efficient, clean, and financially viable solutions. For its sustainable development, there is a need to overcome a few technical obstacles. Therefore, this Special Issue aims to encourage researchers to share recent advances in the development and application of solar air heaters using experimental and computational techniques. Both experimental and numerical studies, cross-disciplinary research and development studies are welcomed.

solar air heater
solar dryer
CFD analysis
heat transfer augmentation
thermal entry length concepts
turbulence modeling
vortex generators
laminar and transitional flow
ANN and machine learning techniques
optimization



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